



371 Waterfront Operations Building Naval Amphibious Base, Little Creek Norfolk, Virginia

Charette

Prepared by:

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Existing Facility



Waterfront Operations Building
Naval Amphibious Base Little Creek, Norfolk, Virginia



Existing Facility Panoramic View

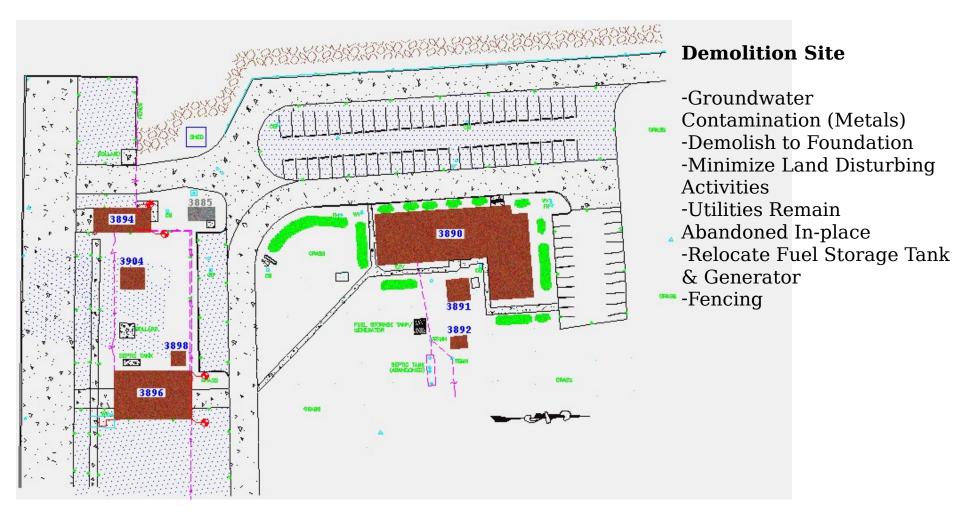








Existing Facility



Waterfront Operations Building



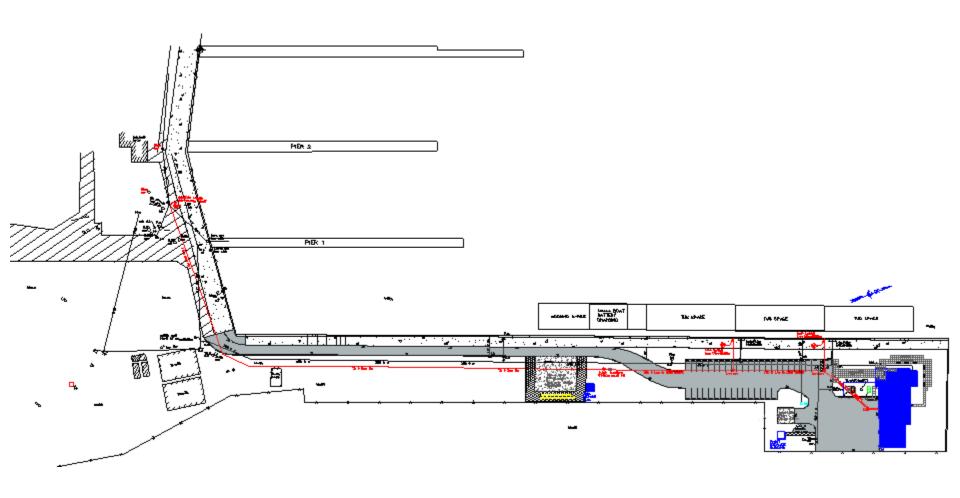
New Site Photographs



Waterfront Operations Building
Naval Amphibious Base Little Creek, Norfolk, Virginia



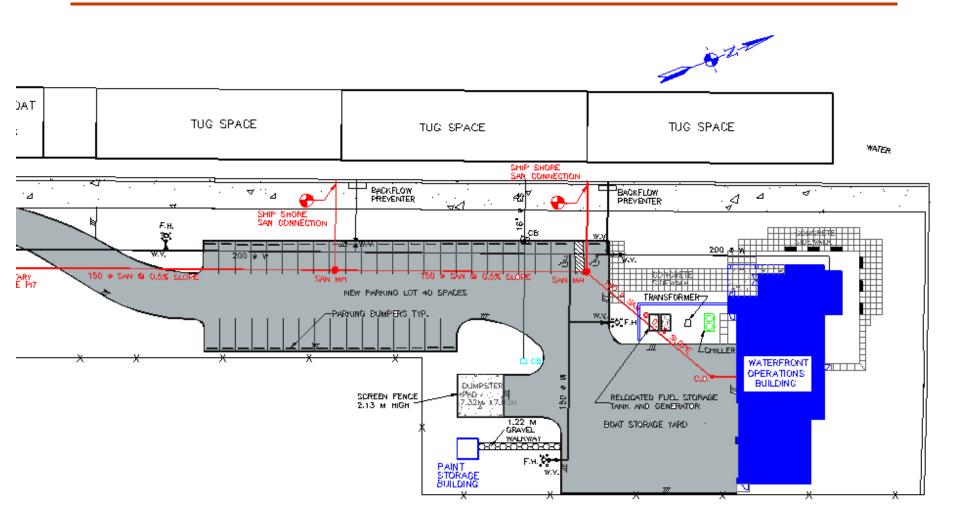
New Site Plan



Waterfront Operations Building



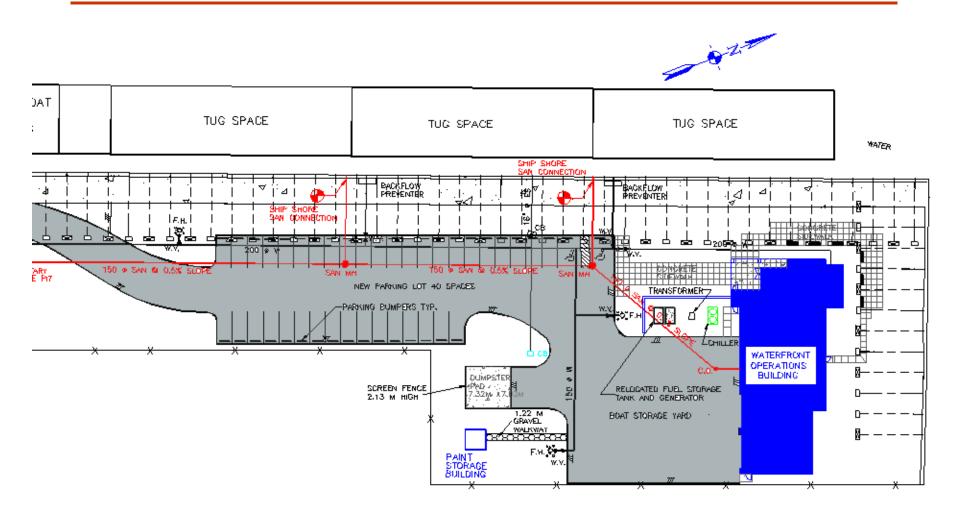
New Site Plan



Waterfront Operations Building



New Site Plan



Waterfront Operations Building



Landscape Plan

PLANT KEY



MEDIUM SIZE EVERGREEN/SCREEN TREES

PINUS THUNBERGIANA



SMALL ORNAMENTAL/SCREEN TREES

JUNIPERUS CHINENSIS "TORULOSA" ILEX X NELLIE R. STEVENS MYRICA CERIFERA LAGERSTROEMIA IN VARIETY

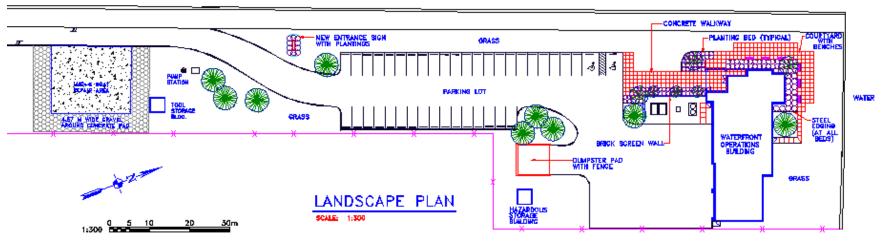
999

SHRUBS/GROUND COVER

RAPHOLEPSIS INDICA "SNOW WHITE"
JUNIPERUS CONTEXTA "SLUME PACIFIC"
LICESTERIM LUCIONIA
LICE VONITIORIA "NAMA"
ROSA RUGOSA IN VARIETY
YUGOA FILAMENTOSA "GOULIEN SNORD"
EUDRYYMUS KALTISCHOMOUS "MANHATTAN"

WATER

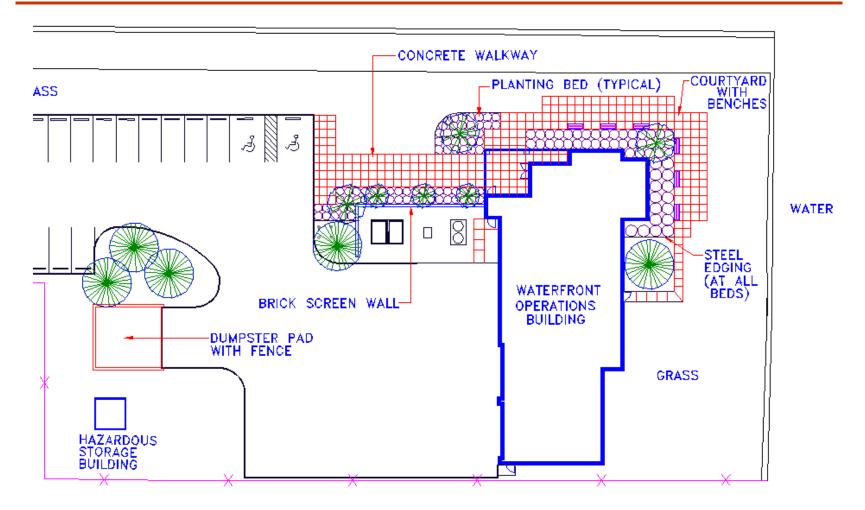
MODRING BARKE SAIL BOAT SAILE BOAT CHARGING TO BPACE TUG SPACE TUG SPACE TUG SPACE



Waterfront Operations Building



Landscape Plan



Waterfront Operations Building



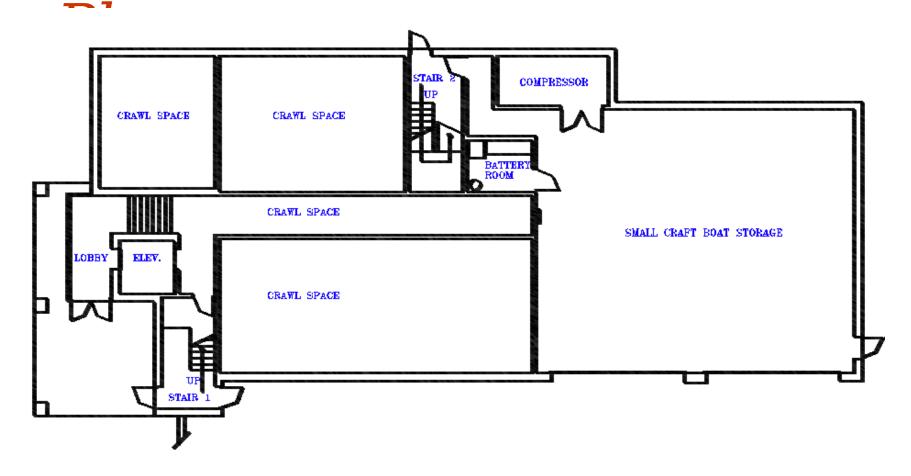
AT LANTDIV OUR MOTTO IS: "IF YOU CAN'T GROW HAIR, GROW A SHRUB"



Waterfront Operations Building
Naval Amphibious Base Little Creek, Norfolk, Virginia



New Facility Ground Floor



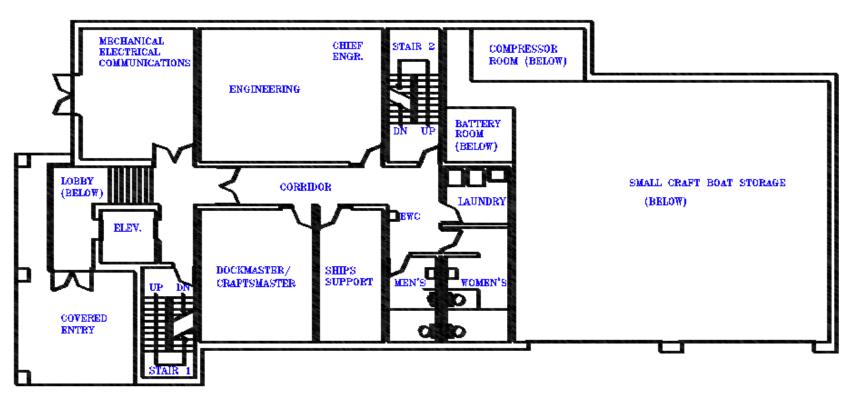
GROUND FLOOR PLAN

Waterfront Operations Building



New Facility First Floor

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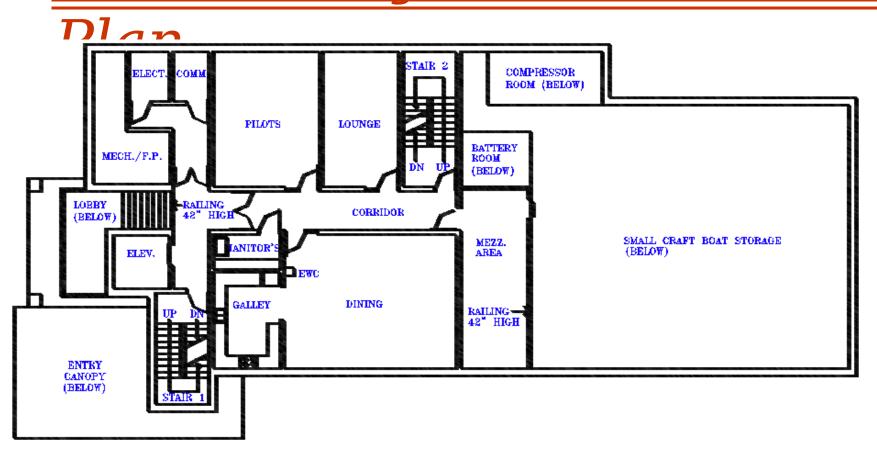


FIRST FLOOR PLAN

Waterfront Operations Building



New Facility Second Floor

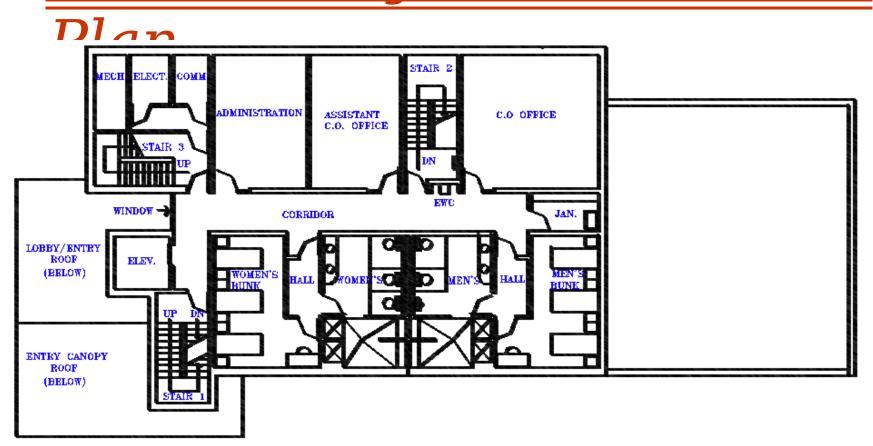


SECOND FLOOR PLAN

Waterfront Operations Building



New Facility Third Floor

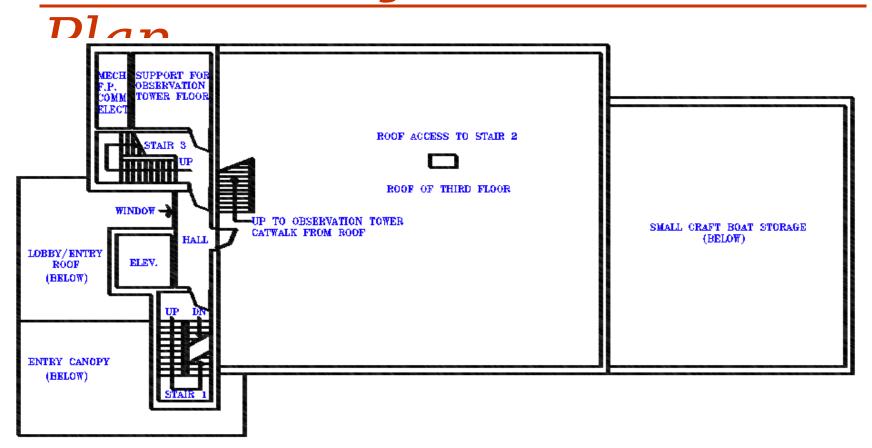


THIRD FLOOR PLAN

Waterfront Operations Building



New Facility Forth Floor

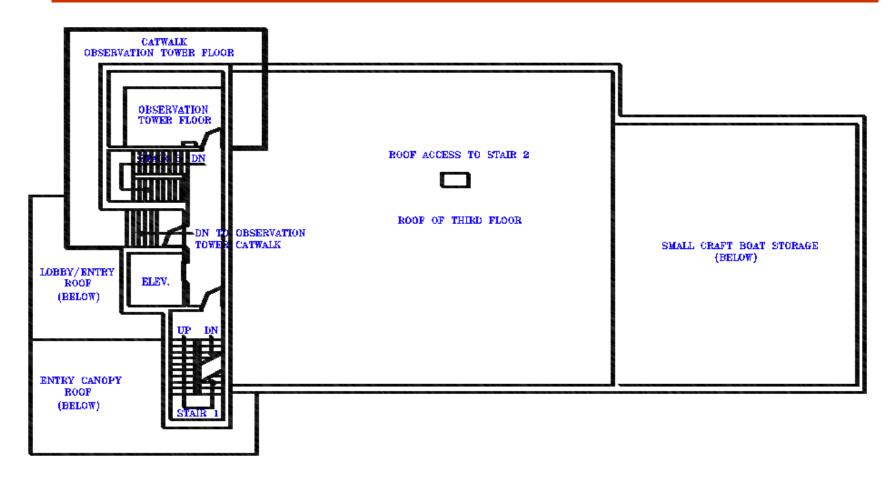


MAIN BUILDING ROOF FOURTH FLOOR PLAN

Waterfront Operations Building



New Facility Tower Plan

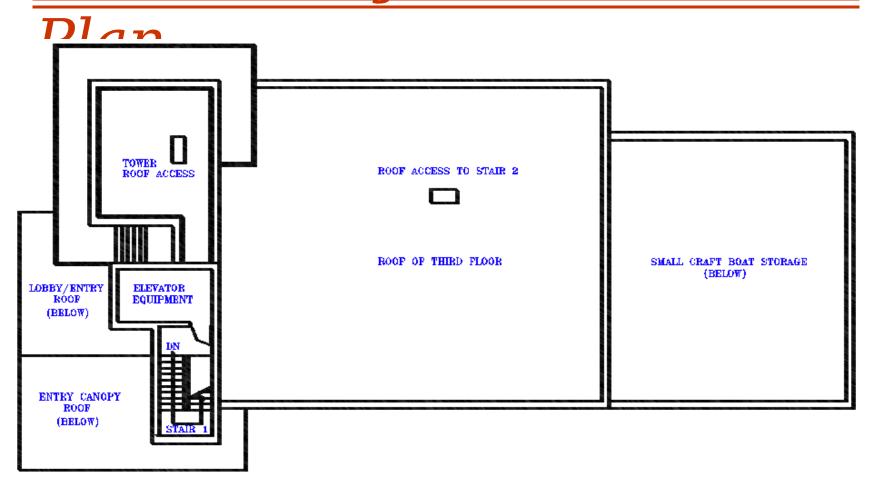


OBSERVATION TOWER AND SUPPORT SPACE FIFTH FLOOR PLAN

Waterfront Operations Building



New Facility Penthouse



ELEVATOR EQUIPMENT PENTHOUSE SIXTH FLOOR

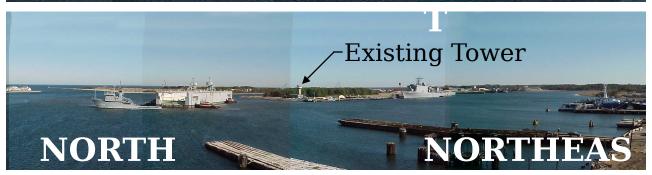
Waterfront Operations Building



New Site Panoramic View



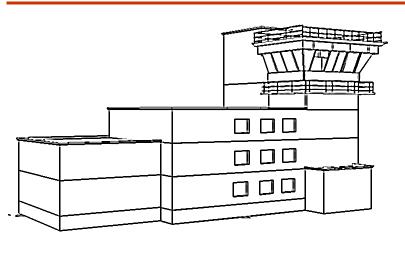


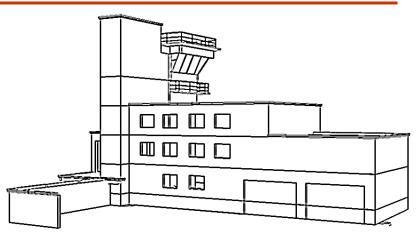


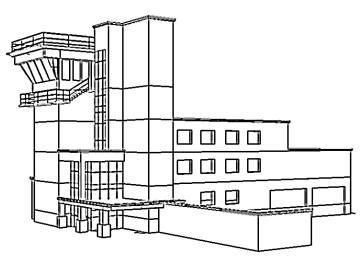
Waterfront Operations Building

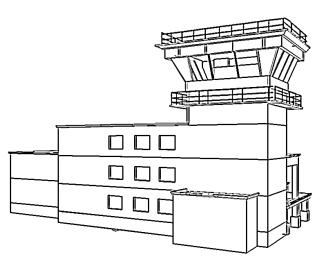


New Facility Rendering









Waterfront Operations Building



New Facility Mechanical

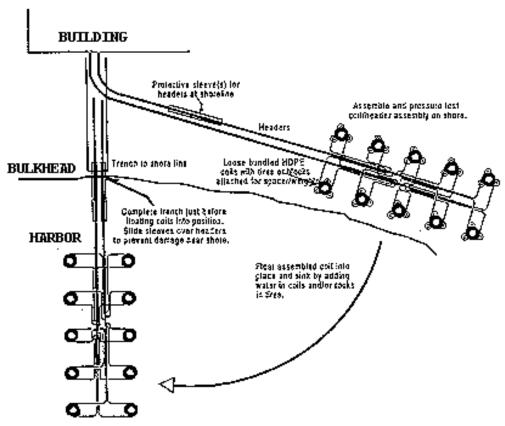
- **Solution P Repres fan-powered variable air volume (FPVAV) terminals** with terminal hot water coils. Dx and hot water coil equipped variable air volume (VAV) air handler. Variable frequency drive fan modulation. Natural Gas fired hot water boiler. Aircooled condensing unit. Natural Gas fired domestic hot water heater.
- Option 2 Ground Source Coupled Heat Pump units. Central ventilation air handling unit with water to water heat pump. Electric domestic hot water heater.
- Option 3 California type water to air heat pump units. Closed circuit cooling tower. Central ventilation air handling unit with water to water heat pump. Natural gas fired hot water boiler. Natural gas or electric domestic hot water heater.
- Option 4 Constant Volume Air Handling Units. Multiple air handlers with chilled and hot water coils. Air cooled chiller. Natural Gas fired hot water boiler. Natural Gas fired hot water heater.

Waterfront Operations Building



Option 2 Mechanical

Systemad Source Coupled Heat Pumps



Installation of closed-loop surface water coil.

Waterfront Operations Building



Cost Estimate

CONCEPT #3						
PRIMARY FACILITY	1371	1,503,000				
DESIGN FEE 3% PRIMARY FACILITY COST 45,00						
SUPPORTING FACILITIES	LS	716,000				
PILING	LS	140,000				
ELECTRICAL UTILITIES	LS	164,000				
MECHANICAL UTILITIES	LS	153,000				
ROADS, PARKING, SIDEWALKS	LS	119,000				
SITE IMPROVEMENTS	LS	40,000				
DEMOLITION	LS	100,000				
OPTIONS/ADDITIVES	LS	128000				
TOTAL COST		\$ 2,264,000				
Base Bid Design To ECC:	\$2,180,000					
Opt./Add. Design To ECC:	\$ 220,000					
Total Target Award ECC:	\$2,400,000					

Waterfront Operations Building



Cost Estimate Summary

CONCEP	T #1		CONCEP	T #2		CONCEPT	#3	
PRIMARY FACY	Quantity 1,386	<u>Cost</u> 1,541,000	PRIMARY FACY	Quantity 1,245	<u>Cost</u> 1,392,000	PRIMARY FACY	Quantity 1,371	<u>Cost</u> 1,503,000
	1,500			1,2 13			2,372	
DESIGN FEE		46,000	DESIGN FEE		42,000	DESIGN FEE		45,000
SUPPORT FACYS	5	741,000	SUPPORT FACYS	5	773,000	SUPPORT FACYS		716,000
						_		
TOTAL COST		\$ 2,328,000	TOTAL COST		\$2,207,000	TOTAL COST		\$ 2,264,000
Base Bid Des	ign To E	CC:	\$ 2,180,000					
Opt/Add. Des	ign To E	CC:	\$ 220,000					
Total Target Award ECC:		\$ 2,400,000						

Waterfront Operations Building



LANTDIV Team

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